

THE NECTRE IN-BUILT
HEATER
INSTALLATION
AND
OPERATING INSTRUCTIONS.

Efficient – Warm – Friendly

Manufactured in Australia

PECAN
ENGINEERING



*The Renewable
Energy Company*

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INSTALLATION & OPERATING INSTRUCTIONS OF THE NECTRE IN-BUILT HEATER

Firstly check all local building and heating regulations. Different states and different localities have varying regulations about the installation and operation of woodstoves and you and your installer should be aware of these.

The NECTRE IN-BUILT is designed to be installed in a concrete, brick or stone fireplace which is attached to a chimney and has a non combustible floor protector. If there is a timber mantelpiece closer than 600mm above the air outlet or other timber, for example at the sides that is closer than 300mm from the unit then the timber must be shielded. Shielding must be in accordance with AS2918:2001.

Before installing the NECTRE the fireplace and chimney must be inspected for soundness and thoroughly cleaned. The chimney must not be less in area at any point than the outlet of the NECTRE (150mm diameter). The heater shall be flued with a 150mm stainless steel flue from the appliance, through the chimney, to atmosphere and fitted with an appropriate termination kit, to prevent any influx of water or debris. Installation as described above complies with Australian Standard. AS2918:2001.

INSTALLATION – Having checked and cleaned the chimney, prepare the opening so that the NECTRE IN-BUILT will seal against the sides of the fireplace. If the opening is too large it can be reduced by fitting a sheet of heat tolerant material such as Hardiflex, or with bricks, or with optional steel fascias available from Nectre.

Take off the NECTRE top plate and put the heater into the fireplace with a 150mm 45 degree stainless steel flue bend. Install flue lengths up the chimney to atmosphere and connect lower end to 45° bend. Fit appropriate termination chimney plate and cowl. Wrap fibreglass or rockwool insulation around the heater and put the heater in place. Gaining access through the removed top panel fit the flue and elbow together. Push the top panel in place.

The flue kit must be installed according to the manufacturer's instructions.

Fit any shielding required to protect the mantelpiece or other combustible materials that are too close. An example of shielding is a heat resistant material fitted below the mantelpiece with a 12mm air gap which would allow the mantelpiece to be only 180mm above the air outlet. The front/side clearance would similarly be reduced to 120mm. Increasing the air gap to 25mm will allow a clearance of 135mm between the air outlet and the mantelpiece above. For more details on heat shielding refer to Australian Standard AS2918/2001 clause 3.2.3.

The NECTRE IN-BUILT is supplied with two firebricks, some stove cement and a baffle plate packed inside the heater. Butter the backs and bottom of the firebricks with stove cement and push up against the sides inside the firebox. Ensure that the bottom of the firebricks are well cemented. The baffle plate is then placed on the hooks near the top of the firebox to form the secondary combustion chamber.

Light a small fire in the unit to ensure that the flue is drawing properly. If the draft is insufficient then firstly check that the NECTRE is sealing against the fireplace opening so that the chimney draw is through the heater. If the heater generally draws satisfactorily but occasionally puffs smoke due to downdrafting in wind gusts then the chimney top needs to be changed. Likely changes are the raising of the outlet and/or the fitting of an antidowndraft cowl.

OPERATING THE NECTRE IN-BUILT – Now that the heater is correctly installed it is ready for lighting. The NECTRE IN-BUILT features a dual air control system. Air is introduced into the fire at the top of the firebox as well as the bottom. The top air is operated by the sliding control located on the top left hand corner of the unit. The bottom air control is located on the door of the heater. The bottom air control is used for starting the fire only.

1. Place a few pieces of dry kindling onto some screwed up newspaper and ignite.
2. As soon as it has caught alight add some large pieces of wood. Load the wood into the firebox so that the logs are placed at right angles to the door opening. Close the door and open the bottom air control located on the door. Make sure that the top air control is closed.
3. When the fire has a well established coal base add full size logs loaded at right angles to the door opening. Keep the bottom air open until the logs have caught then shut it and open the top air fully. Adjust the operating temperature of your fire by opening or closing the top air control. The normal or medium operating position is with the top air open at about half.

CAUTION: DO NOT LEAVE THE STOVE UNATTENDED WITH THE BOTTOM AIR CONTROL OPEN AS OVERFIRING MAY OCCUR, OR WITH CERTAIN TYPES OF WOOD SPITTING THROUGH THE OPENINGS.

The first few times that the stove is lit the stove paint will give off some smoky fumes as it cures. Don't panic, once the paint has cured this will not re-occur. Keep the room well ventilated until these fumes have cleared.

SLOW BURNING e.g. overnight – To make the heater burn for a long period, fill with large pieces of dry hardwood. Open the air control fully and burn briskly for a few minutes to get the logs alight. The best setting for slow burning is with the air control fully closed. After burning overnight the fire may be revived rapidly by placing small pieces of wood on the hot ashes and coals and opening the air control fully to boost the fire. Once established, turn the air control back to the desired setting.

RAPID BURNING – To obtain maximum heat from your NECTRE IN-BUILT firstly establish the fire and then leave it running with the top air control open fully. Keep an eye on your stove when you do this as with a good flue draft and dry wood it is possible for the stove to glow red hot.

Burning the fire with the top air control and bottom air control fully open will often not give the hottest fire as too much heat is lost up the flue and so does not come into the room. Similarly running the stove with the door open will not produce maximum heating in the room as the stove will draw a lot of warmed air out of the room.

MAINTENANCE –

1. Removing the Ashes – Depending on the type of wood burnt, the ashes will need removing every 2 to 6 weeks. With a small shovel, push the hot coals to one side and shovel most of the ash into a metal bucket. Leave a small bed of ash to retain the coals and insulate the base of the firebox. The fire burns the ashes extremely finely so cover the bucket and take care not to stir up the ashes too much.
2. Cleaning Paint Work and Glass – The stove, when cool, can be cleaned with a damp cloth. Over the years the black will fade and should be touched up with high temperature stove paint. We do not recommend graphite based stove polish. To clean the glass we recommend wiping with a household cleaner such as Ajax 'Spray n Wipe' and a steel wool.
3. Door Seal – The door seal is a 10mm round fibreglass braided rope. If it should need replacing fix it in its groove with silicone mastic.
4. Fire Bricks and Baffle Plate – Should the firebricks or baffle plate need replacing, fit them as described in the installation section.
5. Chimney Cleaning – The frequency with which the flue will need cleaning will depend on the way that the heater has been used as well as the type and dryness of the wood burned. Keep an eye on the flue passages and if there appears to be a build up of soot it is time to clean the flue. Access to the flue may be gained by removing the baffle plate and cowl.

WARNING: THE APPLIANCE AND FLUE-SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.

WARNING: APPLIANCES INSTALLED IN ACCORDANCE WITH THIS STANDARD SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZS 4013 WHERE REQUIRED BY THE REGULATORY AUTHORITY, I.E. THE APPLIANCE SHALL BE IDENTIFIABLE BY A COMPLIANCE PLATE WITH THE MARKING 'TESTED TO AS/NZS 4013'.

ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED TO BE IN BREACH OF THE APPROVAL GRANTED FOR COMPLIANCE WITH AS/NZS 4013.

CAUTION: MIXING OF APPLIANCE OR FLUE-SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS CONDITIONS. WHERE SUCH ACTION IS CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED IN THE FIRST INSTANCE.

CAUTION: CRACKED AND BROKEN COMPONENTS, e.g. GLASS PANELS OR CERAMIC TILES, MAY RENDER THE INSTALLATION UNSAFE.

1. **WARNING: ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED AS BREACHING AS/NZS 4013.**
2. **WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE.**
3. **WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHEN IT IS OPERATING.**
4. **WARNING: DO NOT STORE FUEL WITHIN HEATER INSTALLATION CLEARANCES.**
5. **WARNING: WHEN OPERATING THIS APPLIANCE AS AN OPEN FIRE USE A FIRE SCREEN.**
6. **WARNING: OPEN AIR CONTROL (AND DAMPER WHEN FITTED) BEFORE OPENING FIRING DOOR.**
7. **CAUTION: THIS APPLIANCE SHOULD NOT BE OPERATED WITH A CRACKED GLASS.**
8. **CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.**
9. **CAUTION: THE USE OF SOME TYPES OF PRESERVATIVE-TREATED WOOD AS A FUEL CAN BE HAZARDOUS.**

REPLACEABLE COMPONENTS OF THE APPLIANCE

1. Side Fibrebricks: (2)
2. Baffle Plate: Steel 440mm x 250mm x 6mm
3. Door Rope: 1610mm x 10mm round
4. Glass Seal: 1360mm x 8mm x 3mm
5. Glass: 476mm x 197mm x 5mm Pyro Ceramic

RECOMMENDED FUEL: Any dry hardwood that has been seasoned for at least 12 months. All fuel should be stored with protection from the weather to minimise any potential moisture content.

FLUE FIRE: In the event of a flue fire close air intake spindle right down to smother fire.

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

FIVE YEAR WARRANTY

Pecan Engineering Pty Ltd warrants this stove to be able to operate under normal use and service and within five years from the date of the original purchase on the terms herein shall repair or replace without cost to the original customer any part thereof which shall be returned to our factory, transportation charges prepaid and which our inspection shows would prevent operation.

This warranty does not apply to the firebricks, brick retainer, baffle, door seals, glass nor the discolouration of the surface or tarnishing of brass fittings all of which require normal service to maintain them.

Electric fans are only warranted against failure to operate for one year.

Under the terms of this warranty, Pecan Engineering Pty Ltd assumes no responsibility for the labour costs involved in removing or replacing the stove. Nor shall Pecan Engineering Pty Ltd be liable for any injury, loss or damage (direct, indirect or consequential) arising out of the use or inability to use the product, or its removal and replacement. All other Stove warranties, expressed or implied are excluded to the extent possible at Law. Consumers also have rights under relevant State and Commonwealth Laws.

The retailer does not have authority to alter this warranty.
